L Number	Hits	Search Text	DB	Time stamp
1	5	castleberry-tessa-a.in.	USPAT;	2004/05/27 10:25
			US-PGPUB;	
			EPO; JPO;	
			DERWENT	
2	8	lu-bihong.in.	USPAT;	2004/05/27 10:25
			US-PGPUB;	
:			EPO; JPO;	
			DERWENT	
3	7	owen-thomas-a.in.	USPAT;	2004/05/27 10:25
		•	US-PGPUB;	
			EPO; JPO;	
			DERWENT	
4	10	canine same androgen same receptor same protein	USPAT;	2004/05/27 10:26
			US-PGPUB;	
			EPO; JPO;	
_	_		DERWENT	
5	2	wo adj "9711170"	USPAT;	2004/05/27 10:26
			US-PGPUB;	
			EPO; JPO;	
			DERWENT	,

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FULL ESTIMATED COST

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=> s castleberry tessa a/au

8 CASTLEBERRY TESSA A/AU L1

=> s lu bihong/au

18 LU BIHONG/AU

=> s owen thomas a/au

75 OWEN THOMAS A/AU L3

=> s canine (s) androgen (s) receptor (s) protein

19 CANINE (S) ANDROGEN (S) RECEPTOR (S) PROTEIN L4

=> dup rem 14

PROCESSING COMPLETED FOR L4

18 DUP REM L4 (1 DUPLICATE REMOVED) L5

=> d 15 total ibib

ANSWER 1 OF 18 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. L5

on STN

2003151948 EMBASE ACCESSION NUMBER:

TITLE: Androgen and prostatic stroma.

Niu Y.-J.; Ma T.-X.; Zhang J.; Xu Y.; Han R.-F.; Sun G. AUTHOR: Dr. Y.-J. Niu, Department of Prostatic Disease, Tianjin CORPORATE SOURCE:

Institute Urologial Surgery, Tianjin Medical University, 23

Pingjiang Road, Tianjin 300211, China.

niuyj@public.tpt.tj.cn

Asian Journal of Andrology, (2003) 5/1 (19-26). SOURCE:

Refs: 17

ISSN: 1008-682X CODEN: ASJAF8

COUNTRY: China

Journal; Article

DOCUMENT TYPE: FILE SEGMENT: 003 Endocrinology

> 028 Urology and Nephrology

LANGUAGE: English SUMMARY LANGUAGE: English

ANSWER 2 OF 18 CAPLUS COPYRIGHT 2004 ACS on STN

2002:833559 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 137:346923

Cloning and characterization of canine androgen TITLE:

receptor

Castleberry, Tessa A.; Lu, Bihong; Owen, Thomas A.; INVENTOR(S):

Smock, Steven L.

PATENT ASSIGNEE(S): USA

U.S. Pat. Appl. Publ., 20 pp. SOURCE:

CODEN: USXXCO

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

APPLICATION NO. DATE PATENT NO. KIND DATE ---_ _ _ _ _ _ _ ______ 20021031 US 2001-8739 20011109 US 2002161194 A1 US 2000-247373P P 20001109

PRIORITY APPLN. INFO.:

ANSWER 3 OF 18 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER:

2001359406 EMBASE

TITLE:

Epididymal epithelium immortalized by simian virus 40 large

T antigen: A model to study epididymal gene expression.

AUTHOR:

Telgmann R.; Brosens J.J.; Kappler-Hanno K.; Ivell R.;

Kirchhoff C.

CORPORATE SOURCE:

C. Kirchhoff, Inst. Hormon/Fortpflanzungsforschung,

Grandweg 64, D-22529 Hamburg, Germany. kirchhoff@ihf.de

SOURCE:

Molecular Human Reproduction, (2001) 7/10 (935-945).

Refs: 57

ISSN: 1360-9947 CODEN: MHREFD

COUNTRY:

United Kingdom DOCUMENT TYPE: Journal; Article Microbiology 004 FILE SEGMENT: 022 Human Genetics

> Urology and Nephrology 028

English LANGUAGE: English

SUMMARY LANGUAGE:

ACCESSION NUMBER:

CORPORATE SOURCE:

ANSWER 4 OF 18 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. DUPLICATE 1

on STN

2001421879 EMBASE

TITLE:

Molecular cloning and functional characterization of the

canine androgen receptor.

AUTHOR:

Lu B.; Smock S.L.; Castleberry T.A.; Owen T.A. T.A. Owen, Dept. of Cardiovasc./Metabolic Dis.,

Osteoporosis and Frailty Research, Pfizer Global R and D,

Groton, CT 06340, United States

SOURCE:

Molecular and Cellular Biochemistry, (2001) 226/1-2

(129-140). Refs: 34

ISSN: 0300-8177 CODEN: MCBIB8

COUNTRY:

Netherlands Journal; Article

DOCUMENT TYPE: FILE SEGMENT:

Endocrinology 003 Urology and Nephrology 028

029 Clinical Biochemistry

LANGUAGE:

English SUMMARY LANGUAGE: English

ANSWER 5 OF 18 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. L_5

on STN

ACCESSION NUMBER:

97137681 EMBASE

DOCUMENT NUMBER:

1997137681

TITLE:

Gender-related differences in androgen regulation of

thromboxane A2 receptors in rat aortic smooth-muscle cells.

Higashiura K.; Mathur R.S.; Halushka P.V. AUTHOR:

CORPORATE SOURCE:

Dr. P.V. Halushka, Division of Clinical Pharmacology, Medical University of South Carolina, 171 Ashley Ave,

Charleston, SC 29425, United States

SOURCE:

Journal of Cardiovascular Pharmacology, (1997) 29/3

(311-315).

Refs: 35

ISSN: 0160-2446 CODEN: JCPCDT

COUNTRY:

United States

DOCUMENT TYPE:

Journal; Article

FILE SEGMENT:

Cardiovascular Diseases and Cardiovascular Surgery 018

Pharmacology 030

Drug Literature Index 037

LANGUAGE:

English

SUMMARY LANGUAGE:

English

on STN

ANSWER 6 OF 18 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.

ACCESSION NUMBER:

1998004998 EMBASE

TITLE:

Differential effect of keratinocyte growth factor (KGF) on aromatase activity in cultured canine prostatic epithelial

cells.

AUTHOR:

Canatan H.; Shidaifat F.; Kulp S.K.; Zhang Y.; Chang W.Y.;

Brueggemeier R.W.; Lin Y.C.

CORPORATE SOURCE:

Y.C. Lin, Reproductive/Molec. Endocrinol. Lab., College of Veterinary Medicine, Ohio State University, 1900 Coffey

Road, Columbus, OH 43210-1092, United States.

lin.15@osu.edu

SOURCE:

Endocrine Research, (1997) 23/4 (311-323).

Refs: 39

ISSN: 0743-5800 CODEN: ENRSE8

COUNTRY:

United States Journal; Article DOCUMENT TYPE:

FILE SEGMENT:

Endocrinology 003 037 Drug Literature Index

LANGUAGE:

English English

SUMMARY LANGUAGE:

ANSWER 7 OF 18 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER:

96295806 EMBASE

DOCUMENT NUMBER:

1996295806

TITLE:

Body temperature (37 C) specifically down-regulates the messenger ribonucleic acid for the major sperm surface

antigen CD52 in epididymal cell culture.

AUTHOR:

Pera I.; Ivell R.; Kirchhoff C.

CORPORATE SOURCE:

SOURCE:

IHF, Grandweg 64, D-22529 Hamburg, Germany Endocrinology, (1996) 137/10 (4451-4459).

ISSN: 0013-7227 CODEN: ENDOAO

COUNTRY:

United States Journal; Article DOCUMENT TYPE: FILE SEGMENT: 003 Endocrinology

LANGUAGE:

English SUMMARY LANGUAGE: English

ANSWER 8 OF 18 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER:

93238922 EMBASE

DOCUMENT NUMBER:

1993238922

TITLE:

AUTHOR:

Effect of combination treatment with zanoterone (WIN 49596), a steroidal androgen receptor antagonist, and

finasteride (MK-906), a steroidal 5α - reductase

inhibitor, on the prostate and testes of beagle dogs. Juniewicz P.E.; Hoekstra S.J.; Lemp B.M.; Barbolt T.A.; Devin J.A.; Gauthier E.; Frenette G.; Dube J.Y.; Tremblay

CORPORATE SOURCE:

Department of Oncology, Sterling Winthrop Pharma. Res.

Div., Collegeville, PA 19426, United States

SOURCE:

Endocrinology, (1993) 133/2 (904-913).

ISSN: 0013-7227 CODEN: ENDOAO

COUNTRY:

United States

DOCUMENT TYPE:

Journal; Article

FILE SEGMENT:

003 Endocrinology

Urology and Nephrology

030 Pharmacology

037

Drug Literature Index

LANGUAGE:

English

028

SUMMARY LANGUAGE:

English

on STN

ANSWER 9 OF 18 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.

ACCESSION NUMBER:

92165932 EMBASE

DOCUMENT NUMBER:

1992165932

TITLE:

Demonstration of DNA binding factors interacting with a fragment of the canine prostate arginine esterase gene

AUTHOR:

Chapdelaine P.; Guerin S.; Tremblay R.R.; Dube J.Y.

CORPORATE SOURCE:

Laboratory of Hormonal Bioregulation, CHUL Research Center,

2705 Laurier Boulevard, Sainte-Foy, Que. G1V 4G2, Canada

SOURCE:

FEBS Letters, (1992) 303/2-3 (117-120).

ISSN: 0014-5793 CODEN: FEBLAL

COUNTRY:

Netherlands Journal; Article

DOCUMENT TYPE:

FILE SEGMENT:

029 Clinical Biochemistry

LANGUAGE:

English English

SUMMARY LANGUAGE:

ANSWER 10 OF 18 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER:

91135999 EMBASE

DOCUMENT NUMBER:

1991135999

TITLE:

Radiation-inactivation size of transformed and

non-transformed androgen receptor.

AUTHOR:

Turcotte G.; Beauregard G.; Potier M.; Chevalier S.

CORPORATE SOURCE:

Research Center, Maisonneuve-Rosemont Hospital, University of Montreal, 5415 l'Assomption Boulevard, Montreal, Que.

H1T 2M4, Canada

SOURCE:

Biochemical Journal, (1991) 275/1 (41-46).

ISSN: 0264-6021 CODEN: BIJOAK

COUNTRY:

United Kingdom Journal; Article

DOCUMENT TYPE: FILE SEGMENT:

Urology and Nephrology 028 Clinical Biochemistry 029

English

LANGUAGE:

SUMMARY LANGUAGE: English

on STN

ANSWER 11 OF 18 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.

ACCESSION NUMBER:

90349820 EMBASE 1990349820

DOCUMENT NUMBER: TITLE:

L5

Effects of androgen and antiandrogen treatment on canine

prostatic arginine esterase.

AUTHOR:

Juniewicz P.E.; Barbolt T.A.; Egy M.A.; Frenette G.; Dube

J.Y.; Tremblay R.R.

CORPORATE SOURCE:

Department of Oncopharmacology, Sterling Research Group,

Rensselaer, NY 12144, United States

SOURCE:

Prostate, (1990) 17/2 (101-111). ISSN: 0270-4137 CODEN: PRSTDS

COUNTRY:

United States

DOCUMENT TYPE:

Journal; Article

FILE SEGMENT:

005 General Pathology and Pathological Anatomy

016

028 Urology and Nephrology 029 Clinical Biochemistry

037 Drug Literature Index

LANGUAGE: English SUMMARY LANGUAGE: English

L5 ANSWER 12 OF 18 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER: 85080251 EMBASE

DOCUMENT NUMBER: 1985080251

TITLE: Quantification of cytosolic steroid receptors in secretory

and non-secretory epithelial cells of the canine prostate.

AUTHOR: Lamarre D.; Chevalier S.; McKercher G.; et al.

CORPORATE SOURCE: Endocrine Laboratory, Maisonneuve-Rosemont Hospital

Research Center, Montreal, Que. H1T 2M4, Canada

SOURCE: Journal of Steroid Biochemistry, (1985) 22/1 (1-7).

CODEN: JSTBBK

COUNTRY: United Kingdom

DOCUMENT TYPE: Journal

FILE SEGMENT: 029 Clinical Biochemistry

028 Urology and Nephrology

LANGUAGE: English

L5 ANSWER 13 OF 18 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER: 80195746 EMBASE

DOCUMENT NUMBER: 1980195746

TITLE: Detection of an androgen receptor in the canine vas

deferens.

AUTHOR: Dupuy G.M.; Boulanger P.; Roberts K.D.; et al.

CORPORATE SOURCE: Dept. Med., Univ. Montreal, Quebec, Canada

SOURCE: Journal of Steroid Biochemistry, (1980) 13/3 (305-309).

COUNTRY: CODEN: JSTBBK United Kingdom

DOCUMENT TYPE: Journal

DOCUMENT TIPE: JOUINAL

FILE SEGMENT: 037 Drug Literature Index

003 Endocrinology

LANGUAGE: English

L5 ANSWER 14 OF 18 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1981:11131 CAPLUS

DOCUMENT NUMBER: 94:11131

TITLE: Androgen and estrogen receptors in the canine prostate

AUTHOR(S): Hawkins, Edward F.; Trachtenberg, John; Hicks, L.

Louise; Walsh, Patrick C.

CORPORATE SOURCE: James Buchanan Brady Urol. Inst., Johns Hopkins Hosp.,

Baltimore, MD, USA

SOURCE: Journal of Andrology (1980), 1(5), 234-43

CODEN: JOAND3; ISSN: 0196-3635

DOCUMENT TYPE: Journal LANGUAGE: English

L5 ANSWER 15 OF 18 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER: 79225267 EMBASE

DOCUMENT NUMBER: 1979225267

TITLE: The demonstration of oestrogen, androgen and progestagen

receptors in the cytosol fraction of canine mammary tumors.

AUTHOR: D'Arville C.N.; Pierrepoint C.G.

CORPORATE SOURCE: Tenovus Inst. Cancer Res., Welsh Nat. Sch. Med., Cardiff,

CF4 4XX, United Kingdom

SOURCE: European Journal of Cancer and Clinical Oncology, (1979)

15/6 (875-883). CODEN: EJCAAH

COUNTRY: United Kingdom

DOCUMENT TYPE: Journal

FILE SEGMENT: 037 Drug Literature Index

016 Cancer

003 Endocrinology

010 Obstetrics and Gynecology

LANGUAGE: English

L5 ANSWER 16 OF 18 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER: 78323994 EMBASE

DOCUMENT NUMBER:

1978323994

TITLE:

Androphilic and estrophilic molecules in canine prostate

glands.

AUTHOR: Robinette C.L.; Blume C.D.; Mawhinney M.G.

CORPORATE SOURCE: Div. Urol., West Virginia Univ. Med. Cent., Morgantown,

W.Va., United States

SOURCE:

Investigative Urology, (1978) 15/5 (425-431).

CODEN: INURAQ

COUNTRY:

United States

DOCUMENT TYPE:

Journal

FILE SEGMENT:

003 Endocrinology

028 Urology and Nephrology

005 General Pathology and Pathological Anatomy

LANGUAGE: English

L5 ANSWER 17 OF 18 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER: 78158929 EMBASE

DOCUMENT NUMBER:

1978158929

TITLE:

Identification of limited capacity androgen binding

components in nuclear and cytoplasmic fractions of canine

prostate.

AUTHOR: Boesel R.W.; Klipper R.W.; Shain S.A.

CORPORATE SOURCE: Tom Slick Mem. Lab., Southwest Found. Res. Educ., San

Antonio, Tex. 78284, United States

SOURCE:

Endocrine Research Communications, (1977) 4/2 (71-84).

CODEN: EDRCAM

COUNTRY:

United States

DOCUMENT TYPE:

Journal

FILE SEGMENT:

037 Drug Literature Index

003 Endocrinology

029 Clinical Biochemistry

023 Nuclear Medicine

LANGUAGE:

English

L5 ANSWER 18 OF 18 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER:

74047000 EMBASE

DOCUMENT NUMBER:

1974047000

TITLE:

Estrogen binding to pancreas. Kirdani R.Y.; Sandberg A.A.; Murphy G.P.

AUTHOR: CORPORATE SOURCE:

Roswell Park Mem. Inst., Buffalo, N.Y., United States

SOURCE:

Surgery, (1973) 74/1 (84-90).

CODEN: SURGAZ

DOCUMENT TYPE:

Journal

FILE SEGMENT:

003 Endocrinology 023 Nuclear Medicine

LANGUAGE:

English

10008739 Results SEQ ID NO: 2

SUMMARIES

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Result
                Query
  No.
         Score Match Length DB ID
                                                          Description
       ______
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     1
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                         907 24 ABG74229
                                                           Canine Androgen re
     2
          4346
                90.1
                         895 24 AAE32996
                                                           Macaca mulatta and
                        895 24 AAE32995
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       4321.5
                 89.6
                         918 20 AAY33491
                                                           Human androgen rec
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                         919 18 AAW14783
                                                           Androgen receptor.
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                         919 10 AAP93109
                                                           Human androgen rec
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    13 4301.5
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                                                           Rat androgen recep
    14 4300.5
                 89.2
                         902 10 AAP93110
    15 4287.5
                 88.9
                         902 12 AAR12224
                                                           Rat androgen recep
RESULT 4
AAY33491
ID
     AAY33491 standard; Protein; 918 AA.
XX
AC
     AAY33491;
XX
DT
     19-JAN-2000 (first entry)
XX
DE
     Human androgen receptor protein.
XX
KW
     Proapoptotic; dependence domain; p75NTR; androgen receptor; DCC;
     huntingtin polypeptide; Machado-Joseph disease; SCA1; SCA2; SCA6;
KW
KW
     atrophin-1; cell death; apoptosis; Huntington's disease; head trauma;
ĸw
     Alzheimer's disease; Kennedy's disease; spinocerebellar ataxia; stroke;
KW
     dentatorubropallidoluysian atrophy; cell proliferation; cell survival;
ĸw
     neoplastic; malignant; autoimmune; fibrotic.
XX
OS
     Homo sapiens.
XX
PΝ
     WO9945944-A1.
XX
PD
     16-SEP-1999.
хx
PF
     11-MAR-1999;
                    99WO-US05250.
ХX
PR
     12-MAR-1998;
                    98US-0041886.
XX
PA
     (BURN-) BURNHAM INST.
XX
PΤ
     Bredesen DE, Rabizadeh S;
XX
     WPI; 1999-561617/47.
DR
DR
     N-PSDB; AAZ23424.
XX
рт
     New proapoptotic dependence peptides, used to develop products for
PT
     treating, e.g. Alzheimer's disease -
XX
PS
     Disclosure; Page 90-93; 199pp; English.
xx
CC
     This invention describes novel pure proapoptotic dependence peptides
CC
     which comprise a sequence of an active dependence domain selected from
CC
     dependence polypeptides consisting of p75NTR, androgen receptor, DCC,
CC
     huntingtin polypeptide, Machado-Joseph disease gene product, SCA1, SCA2,
     SCA6 and atrophin-1 polypeptide. The proapoptotic peptides are capable
CC
CC
     of inducing cell death and can be used to develop products to mediate or
CÇ
     inhibit apoptosis. The methods can be used for reducing the severity of
     a proapoptotic dependence domain mediated pathological conditions e.g.
```

```
Huntington's disease, Alzheimer's disease, Kennedy's disease,
    Spinocerebellar ataxias, dentatorubropallidoluysian atrophy,
CC
CC
    Machado-Joseph disease, stroke or head trauma. They can also be used for
CC
    reducing the severity of a pathological condition mediated by upregulated
CC
    cell proliferation or cell survival e.g. neoplastic, malignant,
CC
    autoimmune or fibrotic conditions. This sequence represents a human
    androgen receptor described in the method of the invention.
CC
SO
    Sequence
            918 AA:
                    89.6%; Score 4321.5; DB 20; Length 918;
 Ouery Match
 Best Local Similarity 87.7%; Pred. No. 2.9e-284;
 Matches 822; Conservative
                        20; Mismatches
                                          Indels
                                                  49: Gaps
         1 MEVQLGLGRVYPRPPSKTYRGAFQNLFQSVREVIQNPGPRHPEAVSAAPPGAHL----- 54
           Db
         1 MEVQLGLGRVYPRPPSKTYRGAFQNLFQSVREVIQNPGPRHPEAASAAPPGASLLLLQQQ 60
         55 ----QQQQQQQQQQETSPRQQQQQQQQDDGSPQAQSRGPTGYLALDEEQQPSQQRSASKG 110
Qу
              61 QQQQQQQQQQQQQETSPR-QQQQQQGEDGSPQAHRRGPTGYLVLDEEQQPSQPQSALEC 119
Db
        111 HPESACVPEPGVTSATGKGLQQQQPAPPDENDSAAPSTLSLLGPTFPGLSSCSTDLKDIL 170
Ov
              120 HPERGCVPEPGAAVAASKGLPQQLPAPPDEDDSAAPSTLSLLGPTFPGLSSCSADLKDIL 179
Db
        171 SEAGTMQLLQQQRQQQQQQQQQQQQQQQQQQQVVSEGSSSGRAREAAGASTSSKDSYLG 230
Qy
           111 11111
                                Db
        180 SEASTMOLL
                               -- QQQQQEAVSEGSSSGRAREASGAPTSSKDNYLG 221
        231 GSSTISDSAKELCKAVSVSMGLGVEALEHLSPGEQLRGDCMYAPLLGGPPAVR--PCAPL 288
Qу
           222 GTSTISDNAKELCKAVSVSMGLGVEALEHLSPGEQLRGDCMYAPLLGVPPAVRPTPCAPL 281
Db
        289 AECKGSLLDDGPGKGTEETAEYSPFKAGYAKGLDGDSLGCSSSSEAGGSGTLEMPSTLSL 348
Qy
           282 AECKGSLLDDSAGKSTEDTAEYSPFKGGYTKGLEGESLGCSGSAAAGSSGTLELPSTLSL 341
Db
        349 YKSGALDEAAAYQSRDYYNFPLSLGGPPPHPPPPHPHTRIKLENPLDYGSAWAAAAAQCR 408
Qу
           Db
           YKSGALDEAAAYQSRDYYNFPLALAGPPPPPPPPPPPPPPPPHHARIKLENPLDYGSAWAAAAAOCR 401
        409 YGDLASLHGAGAAGPSSGSPSATTSSSWHTLFTAEEGQLYGPCGGSGGGSAGDGG---- 463
Qy
           402 YGDLASLHGAGAAGPGSGSPSAAASSSWHTLFTAEEGQLYGPCGGGGGGGGGGGGGGGGG 461
Db
          -----SVAPYGYTRPPQGLAGQEGDFPPPDVWYPGGVVSRVPFPSPSCVKSE 510
Qу
                     462 GGGGGGGGGGEAEAVAPYGYTRPPQGLAGQESDFTAPDVWYPGGMVSRVPYPSPTCVKSE 521
        511 MGSWMESYSGPYGDMRLETARDHVLPIDYYFPPQKTCLICGDEASGCHYGALTCGSCKVF 570
Qγ
           Db
        522 MGPWMDSYSGPYGDMRLETARDHVLPIDYYFPPQKTCLICGDEASGCHYGALTCGSCKVF 581
        571 FKRAAEGKQKYLCASRNDCTIDKFRRKNCPSCRLRKCYEAGMTLGARKLKKLGNLKLQEE 630
Qу
           582 FKRAAEGKQKYLCASRNDCTIDKFRRKNCPSCRLRKCYEAGMTLGARKLKKLGNLKLQEE 641
Db
        631 GEASNVTSPTEEPTQKLTVSHIEGYECQPIFLNVLEAIEPGVVCAGHDNNQPDSFAALLS 690
0ν
           Db
          GEASSTTSPTEETTQKLTVSHIEGYECQPIFLNVLEAIEPGVVCAGHDNNQPDSFAALLS 701
Oy
        691 SLNELGERQLVHVVKWAKALPGFRNLHVDDQMAVIQYSWMGLMVFAMGWRSFTNVNSRML 750
           Db
        702 SLNELGERQLVHVVKWAKALPGFRNLHVDDQMAVIQYSWMGLMVFAMGWRSFTNVNSRML 761
       751 YFAPDLVFNEYRMHKSRMYSQCVRMRHLSQEFGWLQITPQEFLCMKALLLFSIIPVDGLK 810
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           YFAPDLVFNEYRMHKSRMYSQCVRMRHLSQEFGWLQITPQEFLCMKALLLFSIIPVDGLK 821
Db
Ov
       811 NQKFFDELRMNYIKELDRIIACKRKNPTSCSRRFYOLTKLLDSVOPIARELHOFTFDLLI 870
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822 NOKFFDELRMNYIKELDRIIACKRKNPTSCSRRFYQLTKLLDSVOPIARELHOFTFDLLI 881
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         871 KSHMVSVDFPEMMAEIISVQVPKILSGKVKPIYFHTQ 907
Qу
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RESULT 5
AAW14783
ID
    AAW14783 standard; Protein; 919 AA.
XX
AC
    AAW14783;
XX
DT
    22-JUN-1997 (first entry)
XX
DE
    Androgen receptor.
хx
    Androgen receptor; acidic fibroblast growth factor; aFGF;
KW
KW
    antisense; benign prostatic hyperplasia; prostate cancer; therapy.
ХX
os
    Homo sapiens.
XX
    WO9711170-A1.
PN
XX
PD
    27-MAR-1997.
XX
PF
    20-SEP-1996;
                 96WO-US15081.
хx
PR
    20-SEP-1995;
                 95US-0004018.
XX
PΑ
    (WORC-) WORCESTER FOUND BIOMEDICAL RES.
XX
PΤ
    Zamecnik PA;
XX
    WPI; 1997-202879/18.
DR
DR
    N-PSDB; AAT63407.
XX
    Oligonucleotide(s) antisense to human androgen receptor and acidic
РТ
PT
    FGF genes - used to inhibit gene expression, for the treatment of
    benign prostatic hyperplasia
рт
XX
PS
    Disclosure; Page 22-28; 51pp; English.
XX
CC
    Human androgen receptor (AAW14783) binds testosterone and, acting
CC
    at the transcriptional level, regulates the growth of normal
    prostatic cells. Antisense oligonucleotides (see also AAT63200,
CC
    AAT63404-05) based on an androgen receptor cDNA clone (see also
CC
CC
    AAT63407) can be used to prevent androgen receptor gene expression,
    thereby inhibiting the growth or survival of prostatic cells for
CC
    the treatment of benign prostatic hyperplasia and prostate cancer.
CC
XX
    Sequence
              919 AA:
SO
                       89.6%; Score 4321; DB 18;
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 Best Local Similarity 87.6%; Pred. No. 3.2e-284;
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Db
         {\tt 107\ ASKGHPESACVPEPGVTSATGKGLQQQQPAPPDENDSAAPSTLSLLGPTFPGLSSCSTDL\ 166}
Οy
        Db
Qy
         167 KDILSEAGTMQLLQQQQQQQQQQQQQQQQQQQQQVVSEGSSSGRAREAAGASTSSKD 226
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Qy	227	${\tt SYLGGSSTISDSAKELCKAVSVSMGLGVEALEHLSPGEQLRGDCMYAPLLGGPPAVRP}$	284
Db	222	: : :	281
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Qу	345	TLSLYKSGALDEAAAYQSRDYYNFPLSLGGPPPHPPPPHPHTRIKLENPLDYGSAWAAAA	404
Db	342	TLSLYKSGALDEAAAYQSRDYYNFPLALAGPPPPPPPPPPPPHHARIKLENPLDYGSAWAAAA	401
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Db	402	AQCRYGDLASLHGAGAAGPGSGSPSAAASSSWHTLFTAEEGQLYGPCGGGGGGGGGGGGG	461
Qy	463	GSVAPYGYTRPPQGLAGQEGDFPPPDVWYPGGVVSRVPFPSPSCVKS	509
Db	462	GGGGGGGGGGGAVAPYGYTRPPQGLAGQESDFTAPDVWYPGGMVSRVPYPSPTCVKS	521
Qy	510	EMGSWMESYSGPYGDMRLETARDHVLPIDYYFPPQKTCLICGDEASGCHYGALTCGSCKV	569
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Qy	570	FFKRAAEGKQKYLCASRNDCTIDKFRRKNCPSCRLRKCYEAGMTLGARKLKKLGNLKLQE	629
Db	582	FFKRAAEGKQKYLCASRNDCTIDKFRRKNCPSCRLRKCYEAGMTLGARKLKKLGNLKLQE	641
Qу	630	EGEASNVTSPTEEPTQKL/TVSHIEGYECQPIFLNVLEAIEPGVVCAGHDNNQPDSFAALL	689
Db	642	EGEASSTTSPTEETTQKLTVSHIEGYECQPIFLNVLEAIEPGVVCAGHDNNQPDSFAALL	701
Qy	690	SSLNELGERQLVHVVKWAKALPGFRNLHVDDQMAVIQYSWMGLMVFAMGWRSFTNVNSRM	749
Db	702	SSLNELGERQLVHVVKWAKALPGFRNLHVDDQMAVIQYSWMGLMVFAMGWRSFTNVNSRM	761
Qy	750	LYFAPDLVFNEYRMHKSRMYSQCVRMRHLSQEFGWLQITPQEFLCMKALLLFSIIPVDGL	809
Db	762	LYFAPDLVFNEYRMHKSRMYSQCVRMRHLSQEFGWLQITPQEFLCMKALLLFSIIPVDGL	821
Qу	810	KNQKFFDELRMNYIKELDRIIACKRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTFDLL	869
Db	822	KNOKFFDELRMNYIKELDRIIACKRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTFDLL	881
QУ	870	IKSHMVSVDFPEMMAEIISVQVPKILSGKVKPIYFHTQ 907	
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SUMMARIES

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No.	Score	Match	Length	DΒ	ID	Description
1	4321.5	89.6	918	3	US-09-041-886-11	Sequence 11, Appl
2	2354	48.8	452	3	US-08-764-870-16	Sequence 16, Appl
3	2354	48.8	452	3	US-08-980-115-16	Sequence 16, Appl
4	1274	26.4	933	3	US-08-764-870-14	Sequence 14, Appl
5	1274	26.4	933	3	US-08-980-115-14	Sequence 14, Appl
6	1130	23.4	363	6	5223606-6	Patent No. 5223606
7	1116	23.1	984	3	US-08-764-870-15	Sequence 15, Appl
8	1116	23.1	984	3	US-08-980-115-15	Sequence 15, Appl
و ،	1091.5	22.6	.1070	4	US-09-091-042A-2	Sequence 2, Appli
10	1088	22.6	795	1	US-07-716-827C-5	Sequence 5, Appli
11	1028.5	21.3	777	3	US-08-764-870-13	Sequence 13, Appl
12	1028.5	21.3	777	3	US-08-980-115-13	Sequence 13, Appl
13	952.5	19.8	356	6	5223606-7	Patent No. 5223606
14	644.5	13.4	534	3	US-08-875-223-8	Sequence 8, Appli

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RESULT 1
US-09-041-886-11
; Sequence 11, Application US/09041886
Patent No. 6235872
  GENERAL INFORMATION:
    APPLICANT: Bredesen, Dale E.
    APPLICANT: Rabizadeh, Sharroz
    TITLE OF INVENTION: Proapoptotic Peptides, Dependence
    TITLE OF INVENTION: Polypeptides and Methods of Use NUMBER OF SEQUENCES: 72
    CORRESPONDENCE ADDRESS:
     ADDRESSEE: Campbell & Flores LLP
     STREET: 4370 La Jolla Village Drive, Suite 700
     CITY: San Diego
     STATE: California
     COUNTRY: United States
      ZIP: 92122
    COMPUTER READABLE FORM:
     MEDIUM TYPE: Floppy disk
      COMPUTER: IBM PC compatible
     OPERATING SYSTEM: PC-DOS/MS-DOS
     SOFTWARE: PatentIn Release #1.0, Version #1.25
    CURRENT APPLICATION DATA:
     APPLICATION NUMBER: US/09/041,886
     FILING DATE:
      CLASSIFICATION:
  . ATTORNEY/AGENT INFORMATION:
     NAME: Campbell, Cathryn A.
      REGISTRATION NUMBER: 31,815
     REFERENCE/DOCKET NUMBER: P-LJ 2626
    TELECOMMUNICATION INFORMATION:
     TELEPHONE: (619) 535-9001
      TELEFAX: (619) 535-8949
  INFORMATION FOR SEQ ID NO: 11:
    SEQUENCE CHARACTERISTICS:
      LENGTH: 918 amino acids
      TYPE: amino acid
      TOPOLOGY: linear
    MOLECULE TYPE: protein
US-09-041-886-11
                      89.6%; Score 4321.5; DB 3; Length 918;
 Query Match
 Best Local Similarity 87.7%; Pred. No. 0;
 Matches 822; Conservative 20; Mismatches
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; Patent No. 5223606
    APPLICANT: BLAUDIN DE THE, HUGHES; MARCHIO, AGNES; TIOLLAIS,
: PIERRE: DEJEAN. ANNE
   TITLE OF INVENTION: STEROID/THYROID HORMONE RECEPTOR-RELATED
; PROTEIN INAPPROPRIATELY EXPRESSED IN HUMAN HEPATOCELLULAR CARCINOMA
   NUMBER OF SEQUENCES: 11
    CURRENT APPLICATION DATA:
     APPLICATION NUMBER: US/07/134,130
     FILING DATE: 17-DEC-1987
    PRIOR APPLICATION DATA:
;SEQ ID NO:6:
     LENGTH: 363
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                    23.4%; Score 1130; DB 6; Length 363;
 Best Local Similarity 56.2%; Pred. No. 1e-81;
 Matches 203; Conservative
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        607 CYEAGMTLGARKLKKLGNLKLQEEGEASNVTSPTEEP--TQKLTVSHIEGYECQPIFLNV 664
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            : | | | | | | | | | | |
                        :::
                             Db
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349 YKSGALDEAAAYQSRDYYNFPLSLGGPPPHPPPPHPHTRIKLENPLDYGSAWAAAAAQCR 408

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Db
      121 LMSIEPDVIYAGHDNTKPDTSSSLLTSLNQLGERQLLSVVKWSKSLPGFRNLHIDDQITL 180
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         181 IQYSWMSLMVFGLGWRSYKHVSGQMLYFAPDLILNEQRMKESSFYSLCLTMWQIPQEFVK 240
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       785 LQITPQEFLCMKALLLFSIIPVDGLKNQKFFDELRMNYIKELDRIIACKRKNPTSCSRRF 844
Qу
         Db
       241 LQVSQEEFLCMKVLLLLNTIPLEGLRSQSQFEEMRSSYIRELIKAIGLRQKGVVSSSQRF 300
       845 YQLTKLLDSVQPIARELHQFTFDLLIKSHMVSVDFPEMMAEIISVQVPKILSGKVKPIYF 904
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Qy
Dh
       361 H 361
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SUMMARIES

		₹				
Result		Query				
No.	Score	Match	Length	DB	ID	Description
1	4321	89.6	919	2	A39248	androgen receptor
2	4311.5	89.4	910	2	A34721	androgen receptor
3	4306.5	89.3	902	2	B40494	androgen receptor
4	4276	88.7	911	- 2	B34721	androgen receptor
5	4251	88.2	899	2	A35895	androgen receptor
6	1670	34.6	344	2	I51330	androgen receptor
. 7	1527	31.7	848	2	JG0194	androgen receptor
8	1272	26.4	933	1	QRHUP	progesterone recep
9	1232.5	25.6	930	2	A25923	progesterone recep
10	1231	25.5	923	2	I53280	progesterone recep
11	1227.5	25.5	786	2	A35466	progesterone recep
12	1211	25.1	923	2	A39596	progesterone recep
13	1118.5	23.2	981	2	A41401	mineralocorticoid
14	1116	23.1	984	2	A29513	mineralocorticoid
15	1088	22.6	795	1	QRRTG	glucocorticoid rec

RESULT 1

A39248

androgen receptor - human

C; Species: Homo sapiens (man)

C;Date: 04-Oct-1991 #sequence revision 04-Oct-1991 #text change 24-Nov-1999

C; Accession: A39248; A30328; A40109; A60946; A34942; A27653; A40108; A40494; A32224; A40715; A37124

R; Lubahn, D.B.; Brown, T.R.; Simental, J.A.; Higgs, H.N.; Migeon, C.J.; Wilson, E.M.; French, F.S.

Proc. Natl. Acad. Sci. U.S.A. 86, 9534-9538, 1989

A; Title: Sequence of the intron/exon junctions of the coding region of the human androgen receptor gene and identification of a point mutation in a family with complete androgen insensitivity.

A; Reference number: A39248; MUID: 90083302; PMID: 2594783

A; Accession: A39248

A: Molecule type: DNA

A; Residues: 1-919 < LUB>

A; Cross-references: GB: M27423; GB: M27430; NID: g178904; PIDN: AAA51886.1; PID: g178906 R; Faber, P.W.; Kuiper, G.G.J.M.; van Rooij, H.C.J.; van der Korput, J.A.G.M.; Brinkmann, A.O.; Trapman, J.

Mol. Cell. Endocrinol. 61, 257-262, 1989

A; Title: The N-terminal domain of the human androgen receptor is encoded by one, large

A; Reference number: A30328; MUID: 89137730; PMID: 2917688

A; Accession: A30328

A; Molecule type: DNA

A; Residues: 1-77,79-165, 'A',167-389, 'L',391-464,473-538 <FAB>

A; Cross-references: GB:M20260

R;Lubahn, D.B.; Joseph, D.R.; Sullivan, P.M.; Willard, H.F.; French, F.S.; Wilson, E.M.

```
Science 240, 327-330, 1988
A; Title: Cloning of human androgen receptor complementary DNA and localization to the X
A; Reference number: A40109; MUID: 88178112; PMID: 3353727
A; Accession: A40109
A; Molecule type: DNA
A; Residues: 559-624 < LU2>
A; Cross-references: GB:M20132
R; Kuiper, G.G.J.M.; Faber, P.W.; van Rooij, H.C.J.; van der Korput, J.A.G.M.; Ris-
Stalpers, C.; Klaassen, P.; Trapman, J.; Brinkmann, A.O.
J. Mol. Endocrinol. 2, R1-R4, 1989
A; Title: Structural organization of the human androgen receptor gene.
A; Reference number: A60946; MUID: 89322749; PMID: 2546571
A:Accession: A60946
A; Molecule type: DNA
A; Residues: 536-540; 587-591; 626-631; 723-726; 770-774; 814-818; 867-870 < KUI>
R; Lubahn, D.B.; Joseph, D.R.; Sar, M.; Tan, J.; Higgs, H.N.; Larson, R.E.; French, F.S.;
Wilson, E.M.
Mol. Endocrinol. 2, 1265-1275, 1988
A; Title: The human androgen receptor: complementary deoxyribonucleic acid cloning,
sequence analysis and gene expression in prostate.
A; Reference number: A34942; MUID: 89112208; PMID: 3216866
A; Accession: A34942
A; Molecule type: mRNA
A; Residues: 1-919 <LU3>
A;Cross-references: GB:M20132; NID:g178627; PIDN:AAA51729.1; PID:g178628; GB:J03180
R; Trapman, J.; Klaassen, P.; Kuiper, G.G.J.M.; van der Korput, J.A.G.M.; Faber, P.W.; van
Rooij, H.C.J.; van Kessel, A.G.; Voorhorst, M.M.; Mulder, E.; Brinkmann, A.O.
Biochem. Biophys. Res. Commun. 153, 241-248, 1988
A; Title: Cloning, structure and expression of a cDNA encoding the human androgen
receptor.
A; Reference number: A27653; MUID: 88240407; PMID: 3377788
A:Accession: A27653
A; Molecule type: mRNA
A; Residues: 468-564, 'K', 566-919 < TRA>
A;Cross-references: GB:M20260; NID:g178891; PIDN:AAA51774.1; PID:g178892
A; Note: the authors translated the codon AAG for residue 565 as Glu
R; Chang, C.; Kokontis, J.; Liao, S.
Science 240, 324-326, 1988
A; Title: Molecular cloning of human and rat complementary DNA encoding androgen
receptors.
A; Reference number: A40108; MUID: 88178111; PMID: 3353726
A; Accession: A40108
A; Molecule type: mRNA
A:Residues: 557-628 <CHA>
A; Cross-references: GB:M18624
R;Chang, C.; Kokontis, J.; Liao, S.
Proc. Natl. Acad. Sci. U.S.A. 85, 7211-7215, 1988
A; Title: Structural analysis of complementary DNA and amino acid sequences of human and
rat androgen receptors.
A; Reference number: A40494; MUID: 89017168; PMID: 3174628
A: Accession: A40494
A; Molecule type: mRNA
A; Residues: 1-74,79-89, 'H',90-472, 'GGG',473-474, 'E',476-644, 'N',646-919 <CH2>
A; Cross-references: GB:M23263
R; Tilley, W.D.; Marcelli, M.; Wilson, J.D.; McPhaul, M.J.
Proc. Natl. Acad. Sci. U.S.A. 86, 327-331, 1989
A; Title: Characterization and expression of a cDNA encoding the human androgen receptor.
A; Reference number: A32224; MUID: 89098909; PMID: 2911578
A; Accession: A32224
A; Molecule type: mRNA
A; Residues: 1-77,79-211, 'R',213-471,473-919 <TIL>
A;Cross-references: GB:M21748; GB:J04150; NID:g178871; PIDN:AAA51771.1; PID:g178872
R; Mowszowicz, I.; Lee, H.J.; Chen, H.T.; Mestayer, C.; Portois, M.C.; Cabrol, S.;
Mauvais-Jarvis, P.; Chang, C.
Mol. Endocrinol. 7, 861-869, 1993
A; Title: A point mutation in the second zinc finger of the DNA-binding domain of the
androgen receptor gene causes complete androgen insensitivity in two siblings with
receptor-positive androgen resistance.
A; Reference number: A40715; MUID: 94019395; PMID: 8413310
A; Accession: A40715
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A; Status: not compared with conceptual translation
A; Molecule type: DNA
A; Residues: 557-614, 'H', 616-624 < MOW>
A; Cross-references: PIDN: AAB28340.1; PID: g425580
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A; Gene: GDB: AR
A; Cross-references: GDB:120556; OMIM:313700
A; Map position: Xq11-Xq12
A; Introns: 538/2; 589/1; 628/1; 724/1; 772/2; 816/1; 868/3
C; Superfamily: unassigned erbA-related proteins; erbA transforming protein homology
C; Keywords: DNA binding; steroid binding; transcription regulation; zinc finger
F;557-815/Domain: erbA transforming protein homology <ERBA>
F;559-579/Region: zinc finger
F;595-619/Region: zinc finger
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                 Db
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Qy
            Db
        120 ALECHPERGCVPEPGAAVAASKGLPQQLPAPPDEDDSAAPSTLSLLGPTFPGLSSCSADL 179
        167 KDILSEAGTMQLLQQQRQQQQQQQQQQQQQQQQQQQVVSEGSSSGRAREAAGASTSSKD 226
Qу
                                   180 KDILSEASTMOLL-
                                   QQQQQEAVSEGSSSGRAREASGAPTSSKD 221
Db
        227 SYLGGSSTISDSAKELCKAVSVSMGLGVEALEHLSPGEQLRGDCMYAPLLGGPPAVR--P 284
Qу
           :[]]]:[]]:[]]]
Db
        222 NYLGGTSTISDNAKELCKAVSVSMGLGVEALEHLSPGEOLRGDCMYAPLLGVPPAVRPTP 281
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Qy
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        282 CAPLAECKGSLLDDSAGKSTEDTAEYSPFKGGYTKGLEGESLGCSGSAAAGSSGTLELPS 341
        345 TLSLYKSGALDEAAAYQSRDYYNFPLSLGGPPPHPPPPHPHTRIKLENPLDYGSAWAAAA 404
Qу
           342 TLSLYKSGALDEAAAYOSRDYYNFPLALAGPPPPPPPPPPPPHPHARIKLENPLDYGSAWAAAA 401
Db
        405 AQCRYGDLASLHGAGAAGPSSGSPSATTSSSWHTLFTAEEGQLYGPCGGSGGGSAGDG-- 462
Qy
           402 AQCRYGDLASLHGAGAAGPGSGSPSAAASSSWHTLFTAEEGQLYGPCGGGGGGGGGGGG 461
Db
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Qу
                     462 GGGGGGGGGGGAGAVAPYGYTRPPQGLAGQESDFTAPDVWYPGGMVSRVPYPSPTCVKS 521
Db
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Qу
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Db
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Oy
           Db
        582 FFKRAAEGKQKYLCASRNDCTIDKFRRKNCPSCRLRKCYEAGMTLGARKLKKLGNLKLQE 641
        630 EGEASNVTSPTEEPTQKLTVSHIEGYECQPIFLNVLEAIEPGVVCAGHDNNQPDSFAALL 689
Оy
           Db
        642 EGEASSTTSPTEETTQKLTVSHIEGYECQPIFLNVLEAIEPGVVCAGHDNNQPDSFAALL 701
Qу
        690 SSLNELGERQLVHVVKWAKALPGFRNLHVDDQMAVIQYSWMGLMVFAMGWRSFTNVNSRM 749
           Db
        702 SSLNELGERQLVHVVKWAKALPGFRNLHVDDQMAVIQYSWMGLMVFAMGWRSFTNVNSRM 761
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750 LYFAPDLVFNEYRMHKSRMYSQCVRMRHLSQEFGWLQITPQEFLCMKALLLFSIIPVDGL 809
Qу
           Db
          LYFAPDLVFNEYRMHKSRMYSQCVRMRHLSQEFGWLQITPQEFLCMKALLLFSIIPVDGL 821
        810 KNOKFFDELRMNYIKELDRIIACKRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTFDLL 869
Qy
           KNOKFFDELRMNYIKELDRIIACKRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTFDLL 881
Db
        870 IKSHMVSVDFPEMMAEIISVQVPKILSGKVKPIYFHTQ 907
Qу
            882 IKSHMVSVDFPEMMAEIISVQVPKILSGKVKPIYFHTQ 919
Db
RESULT 2
A34721
androgen receptor A - human
C; Species: Homo sapiens (man)
C;Date: 31-Mar-1991 #sequence_revision 31-Mar-1991 #text_change 12-Sep-1997
C; Accession: A34721
R:Govindan, M.V.
Mol. Endocrinol. 4, 417-427, 1990
A; Title: Specific region in hormone binding domain is essential for hormone binding and
trans-activation by human androgen receptor.
A; Reference number: A34721; MUID: 90258935; PMID: 2342476
A; Accession: A34721
A; Molecule type: mRNA
A:Residues: 1-910 <GOV>
C; Superfamily: unassigned erbA-related proteins; erbA transforming protein homology
C; Keywords: zinc finger
F;548-806/Domain: erbA transforming protein homology <ERBA>
F;550-570/Region: zinc finger
F;586-610/Region: zinc finger
 Query Match
                    89.4%; Score 4311.5; DB 2; Length 910;
 Best Local Similarity 88.2%; Pred. No. 1.7e-229;
                        21; Mismatches
 Matches 819; Conservative
                                           Indels
                                                  41; Gaps
         {\tt 1} {\tt MEVQLGLGRVYPRPPSKTYRGAFQNLFQSVREVIQNPGPRHPEAVSAAPPGAHL------ {\tt 54} \\
Qу
           Db
         1 MEVQLGLGRVYPRPPSKTYRGAFQNLFQSVREVIQNPGPRHPEAASAAPPGASLLLLQQQ 60
        55 -----QQQQQQQQQQQETSPRQQQQQQQGDDGSPQAQSRGPTGYLALDEEQQPSQQRSA 107
Qу
                 61 QQQQQQQQQQQQQQQQQQETSPR-QQQQQQGEDGSPQAHRRGPTGYLVLDEEQQPSQPQSA 119
Db
        108 SKGHPESACVPEPGVTSATGKGLQQQQPAPPDENDSAAPSTLSLLGPTFPGLSSCSTDLK 167
Qу
            120 LECHPERGCVPEPGAAVAASKGLPQQLPAPPDEDDSAAPSTLSLLAPTFPGLSSCSADLK 179
        Οv
           11111 1111
                                   Db
        180 DILSEASTMQLL------QQQQQEAVSEGSSSGRAREASGAPTSSKDN 221
        228 YLGGSSTISDSAKELCKAVSVSMGLGVEALEHLSPGEQLRGDCMYAPLLGGPPAVR--PC 285
Qy
           222 YLGGTSTISDNAKELCKAVSVSMGLGVEALEHLSPGEOLRGDCMYAPLLGVPPAVRPTPC 281
Dh
        286 APLAECKGSLLDDGPGKGTEETAEYSPFKAGYAKGLDGDSLGCSSSSEAGGSGTLEMPST 345
Qу
           Db
        282 APLAECKGSLLDDSAGKSTEDTAEYSPFKGGYTKGLEGESLGCSGSAAAGSSGTLELPST 341
Ov
        346 LSLYKSGALDEAAAYQSRDYYNFPLSLGGPPPHPPPPHPHTRIKLENPLDYGSAWAAAAA 405
           Db
        342 LSLYKSGALDEAAAYQSRDYYNFPLALAGPPPPPPPPPPPPPHARIKLENPLDYGSAWAAAAA 401
        406 QCRYGDLASLHGAGAAGPSSGSPSATTSSSWHTLFTAEEGQLYGPCGGSGGSAGDG--- 462
Qу
           QCRYGDLASLHGAGAAGPGSGSPSAAASSSWHTLFTAEEGQLYGPCGGGGGGGGGGGGG 461
Db
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463 ----GSVAPYGYTRPPQGLAGQEGDFPPPDVWYPGGVVSRVPFPSPSCVKSEMGSWMESY 518

Qy

ī	Ob	462	:	521
ζ	ДХ	519	SGPYGDMRLETARDHVLPIDYYFPPQKTCLICGDEASGCHYGALTCGSCKVFFKRAAEGK	5/8
I	Ob	522	SGPYGDMRLETARDHVLPIDYYFPPQKTCLICGDEASGCHYGALTCGSCKVFFKRAAEGK	581
(Qy	579	QKYLCASRNDCTIDKFRRKNCPSCRLRKCYEAGMTLGARKLKKLGNLKLQEEGEASNVTS	638
I	Ob	582	QKYLCASRNDCTIDKFRRKNCPSCRLRKCYEAGMTLGARKLKKLGNLKLQEEGEASSTTS	641
(Qу	639	PTEEPTQKLTVSHIEGYECQPIFLNVLEAIEPGVVCAGHDNNQPDSFAALLSSLNELGER	698
I	Ob	642	PTEETTQKLTVSHIEGYECQPIFLNVLEAIEPGVVCAGHDNNQPDSFAALLSSLNELGER	701
(Qу	699	QLVHVVKWAKALPGFRNLHVDDQMAVIQYSWMGLMVFAMGWRSFTNVNSRMLYFAPDLVF	758
I	Ob	702	QLVHVVKWAKALPGLRNLHVDDQMAVIQYSWMGLMVFAMGWRSFTNVNSRMLYFAPDLVF	761
(Qy	759	NEYRMHKSRMYSQCVRMRHLSQEFGWLQITPQEFLCMKALLLFSIIPVDGLKNQKFFDEL	818
I	Ob	762	NEYRMHKSRMYSQCVRMRHLSQEFGWLQITPQEFLCMKAMLLFSIIPVDGLKNQKFFDEL	821
(Qy	819	RMNYIKELDRIIACKRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTFDLLIKSHMVSVD	878
I	Ob	822	RMNYIKELDRIIACKRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTFDLLIKSHMVSVD	881
Ç	Qу	879	FPEMMAEIISVQVPKILSGKVKPIYFHTQ 907	
I	Ob .	882	FPEMMAEIISVQVPKILSGKVKPIYFHTQ 910	

4 *